

SECTION 911 -- CHAIN-LINK FENCE

911.01 -- Description

1. The Contractor shall furnish materials and build chain-link fence and gates, including takedown panels, channel crossings, access gates, floodgates, drainage structure terminal installations, private fence terminals, concrete foundations, and other appurtenances as prescribed in the plans.

2. a. The Contractor shall furnish either zinc-coated steel fence fabric or aluminum-coated steel fence fabric.

b. All fence fabric furnished under the contract shall be of the same type.

c. The Contractor shall use tie wires that are the same material and coating as the fence fabric.

911.02 -- Material Requirements

1. All materials shall conform to the requirements in Table 911.01.

Table 911.01

Material Requirements	
Applicable Materials	Section
Structural Timber and Lumber	1075
Fence	1064

2. a. The concrete used in fence post anchors and footings shall be any concrete mixture capable of achieving a minimum unit compressive strength of 1,450 psi at 28 days.

b. The aggregate shall be from acceptable sources.

c. Equipment used to mix, place, and finish concrete does not have to be calibrated.

911.03 -- Construction Methods

1. a. The Engineer may designate certain portions or lengths of chain-link fence as essential to the beginning or continuation of other operations on the project. The Contractor shall give priority to the erection of those portions or lengths of fence that are designated most essential by the Engineer.

b. (1) Where chain-link fence is to be constructed parallel to the right-of-way lines, it shall be erected on public right-of-way with the center of the posts 1 foot from the right-of-way line.

(2) Fencing materials shall be attached on the roadway side of the posts, except the fencing materials shall be attached on the outside of the posts on curves.

(3) The area 2 feet on each side of the fence shall be graded so that the fence will conform to the general contour of the ground.

2. The construction of concrete footings shall be performed in accordance with the requirements of Subsection 910.03, Paragraph 2.

3. a. (1) All posts shall be set in accordance with the requirements of Subsection 910.03.

(2) All posts shall be of the sizes and types shown in the plans.

(3) Tubular line posts shall have heavy malleable iron caps to hold the top rail and exclude moisture from inside the post.

(4) H-Section steel line posts shall be constructed or equipped with a suitable device to hold the top rail.

(5) All end, corner, and pull posts shall be furnished with braces, truss rods, turnbuckles, tension bands, and all fittings required to make a complete installation as shown in the plans.

b. Where the chain-link fence intersects or joins an existing fence, terminal installations shall be made in accordance with the details shown in the plans. Braces and cross ties shall be installed in accordance with the requirements of Subsection 910.03.

c. As indicated in the plans, variations in the requirements for fence construction will be required at stream crossings or drainage ways. The locations of these installations will be dictated by the topography and as directed by the Engineer.

d. When indicated in the plans, drainage structure terminal installations shall be made at structures. The terminal installation shall be made in accordance with the requirements of Subsection 910.03 except that chain-link fabric shall be used in place of barbed wire.

e. (1) The tension for stretching the fence material shall be applied by approved mechanical fence stretchers.

(2) Splices in the fabric shall be made according to the fence manufacturer's recommendations.

(3) The fabric shall be fastened to the top rail and posts with wire ties or clamps. Six fasteners, equally spaced, shall be used to fasten the fabric to each 10 feet of rail; and 1 fastener shall be used for each foot of post height.

f. Where a power line crosses over the fence or parallels the fence, the fence shall be grounded in accordance with the provisions of Subsection 910.03.

g. Takedown panels shall be constructed in accordance with the details shown in the plans. All material used for the takedown panels shall be the same as those used for the remainder of the chain-link fence, including the tension bars and bands for the end, corner, and pull posts.

911.04 -- Method of Measurement

1. Private fence terminal installations, takedown panels, floodgates, access gates, channel crossings, end posts, corner posts, pull posts, and drainage structure terminal installations will be measured by the each.
2. The quantity of chain-link fence is measured at the bottom of the fence fabric from center to center of posts in linear feet. The lengths occupied by takedown panels and gates will not be included.

911.05 -- Basis of Payment

1. Pay Item	Pay Unit
Private Fence Terminal for _____ Foot Chain-Link Fence	Each (ea)
Takedown Panel for _____ Foot Chain-Link Fence	Each (ea)
Floodgate, Type _____ for _____ Foot Chain-Link Fence	Each (ea)
Channel Crossing, Type _____ for _____ Foot Chain-Link Fence	Each (ea)
End Post for _____ Foot Chain-Link Fence	Each (ea)
Corner Post for _____ Foot Chain-Link Fence	Each (ea)
Pull Post for _____ Foot Chain-Link Fence	Each (ea)
Drainage Structure Terminal for _____ Foot Chain-Link Fence	Each (ea)
_____ Foot Chain-Link Fence	Linear Foot (LF)
_____ Gate _____ Foot Chain-Link Fence	Each (ea)

2. Direct payment will not be made for concrete footings, but they shall be considered subsidiary to the associated fence pay item.
3. Direct payment will not be made for electrical grounds, but they shall be considered subsidiary to the fence pay item attached to the electrical ground.
4. Payment is full compensation for all work prescribed in this Section.